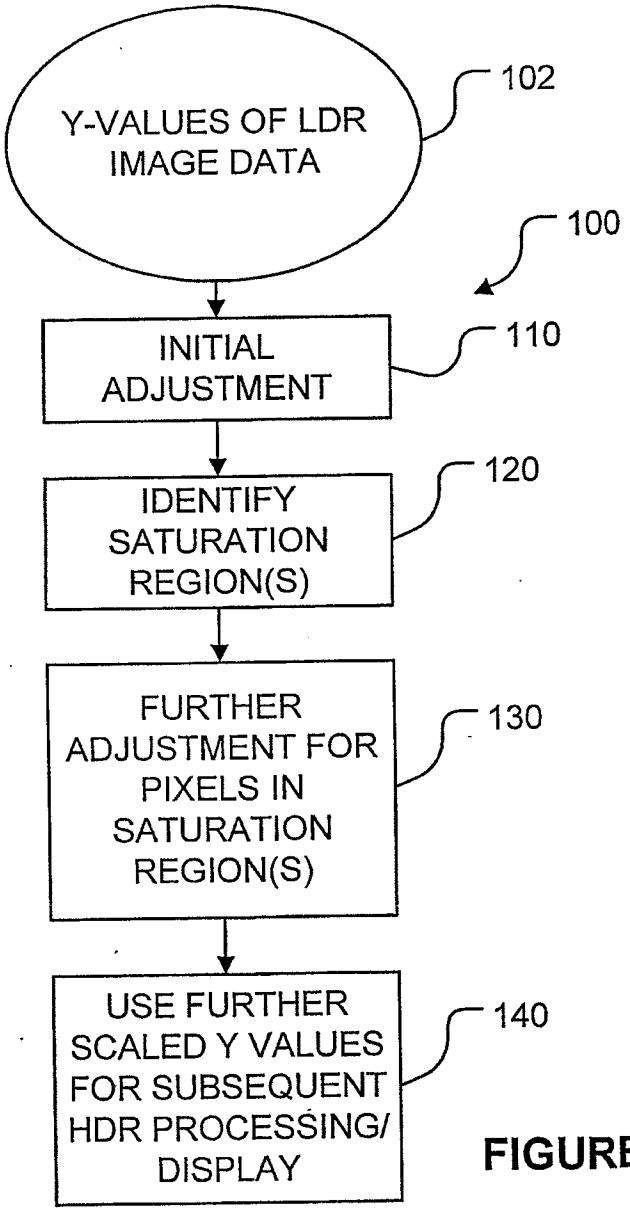
Y-VALUES OF LDR IMAGE DATA
102
100
INITIAL ADJUSTMENT
110
IDENTIFY SATURATION REGION(S)
120
FURTHER ADJUSTMENT FOR PIXELS IN SATURATION REGION(S)
130
USE FURTHER SCALED Y VALUES FOR SUBSEQUENT HDR PROCESSING/ DISPLAY
140

FIGURE 1A

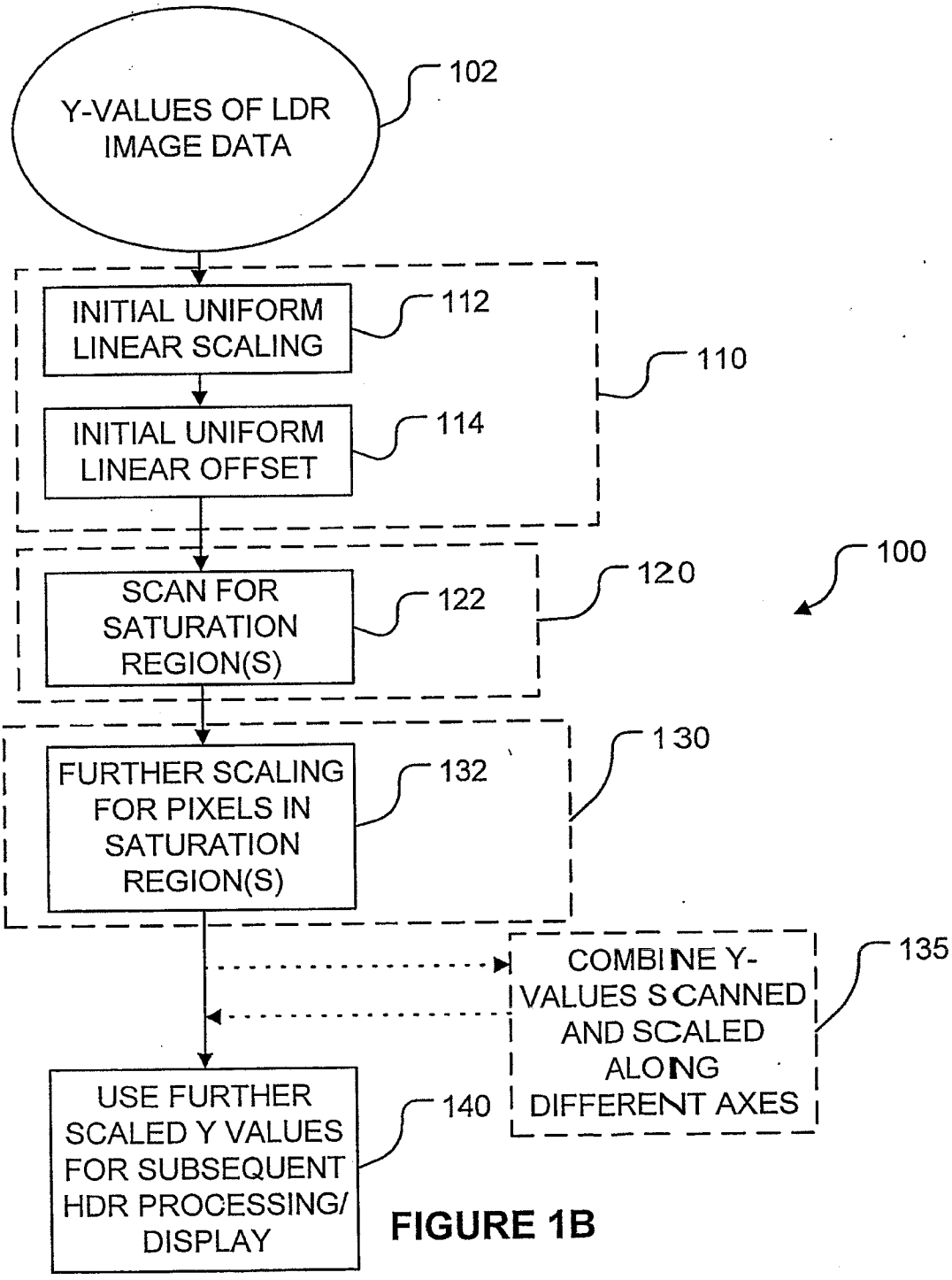
Y-VALUES OF LDR IMAGE DATA
102
INITIAL UNIFORM LINEAR SCALING
112
INITIAL UNIFORM LINEAR OFFSET
114
110
SCAN FOR SATURATION REGION(S)
122
120
100
FURTHER SCALING FOR PIXELS IN SATURATION REGION(S)
132
130
COMBINE Y-VALUES SCANNED AND SCALED ALONG DIFFERENT AXES
135
USE FURTHER SCALED Y VALUES FOR SUBSEQUENT HDR PROCESSING/ DISPLAY
140

FIGURE 1B

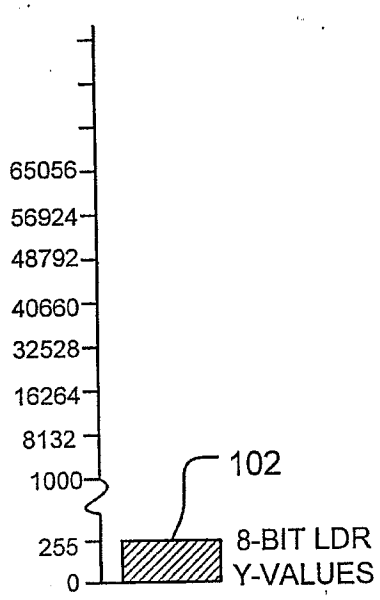

FIGURE 2A

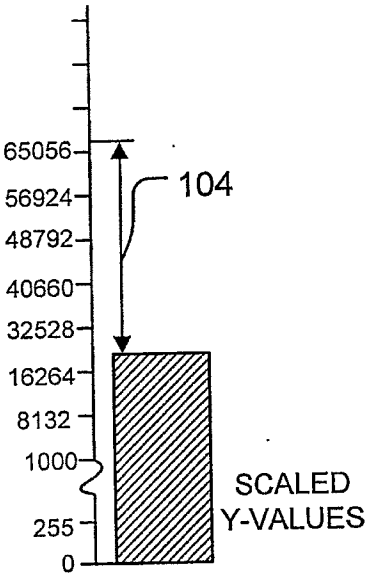

FIGURE 2B

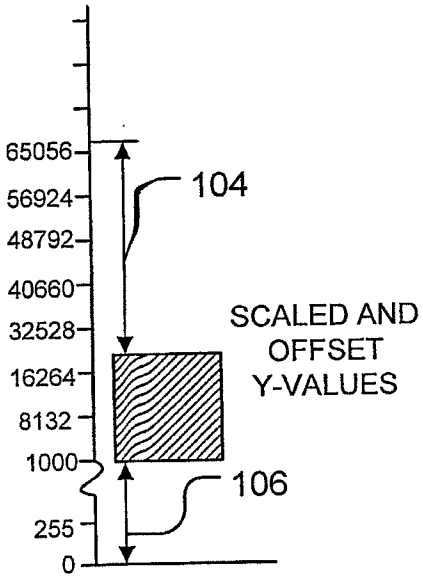

FIGURE 2C

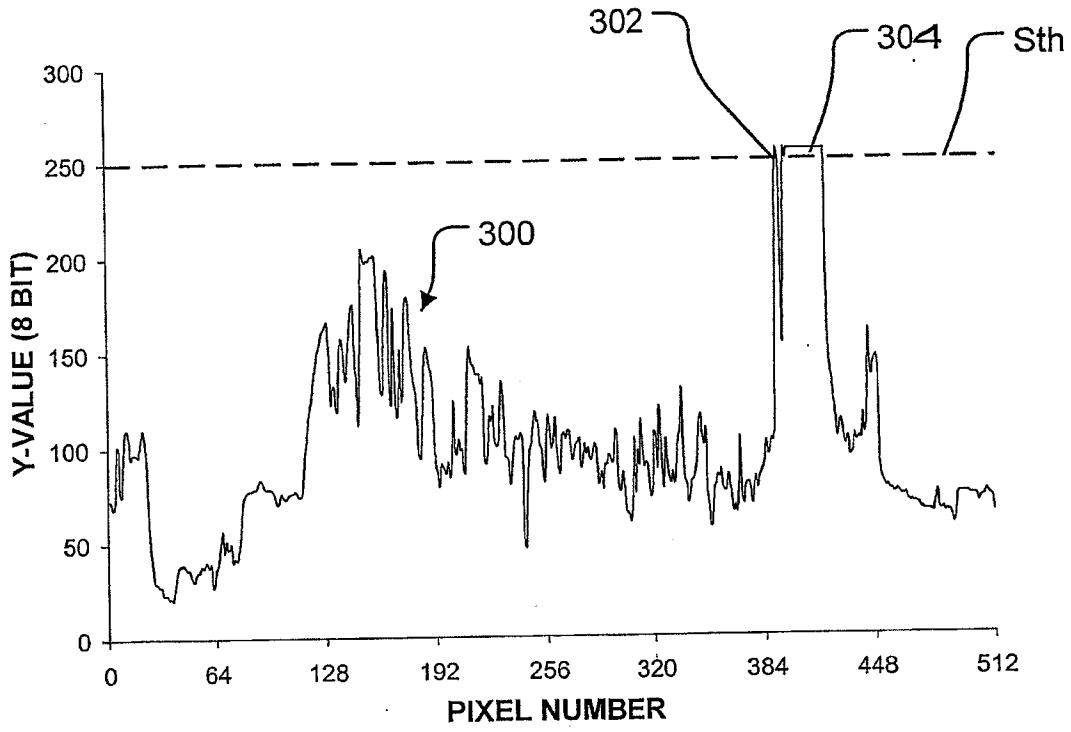
302
304
Sth
300
300
250
200
150
100
50
0
Y-VALUE (8 BIT)
0
64
128
192
256
320
384
448
512
PIXEL NUMBER

FIGURE 3A

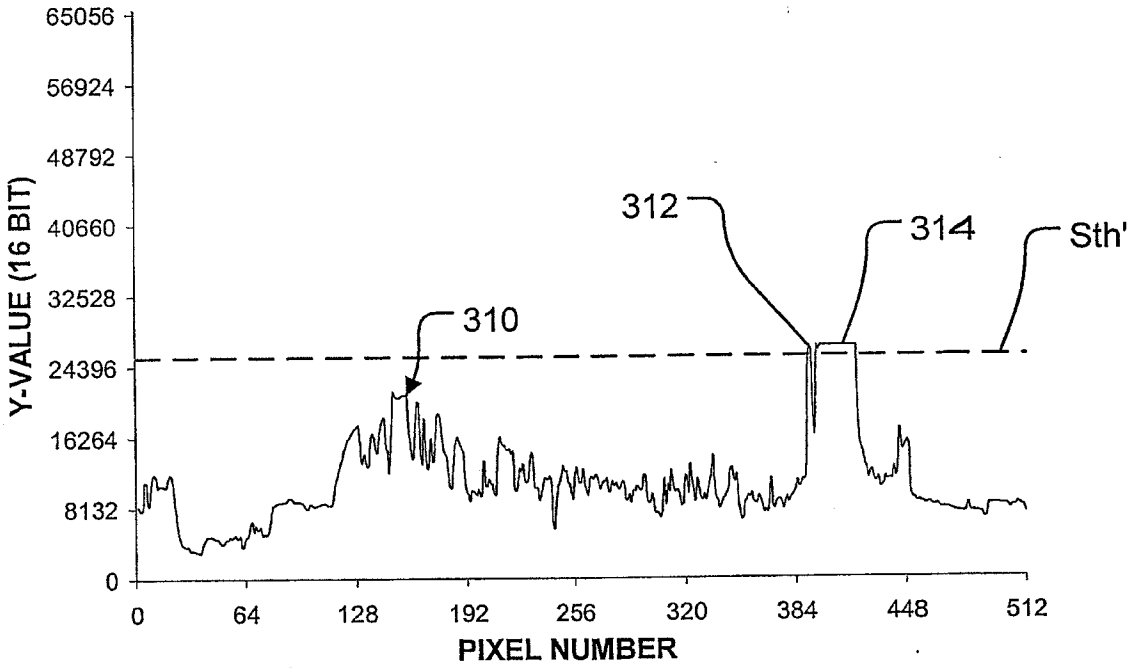
65056
56924
48792
40660
32528
24396
16264
8132
0
Y-VALUE (16 BIT)
0
64
128
192
256
320
384
448
512
PIXEL NUMBER
310
312
314
Sth'

FIGURE 3B

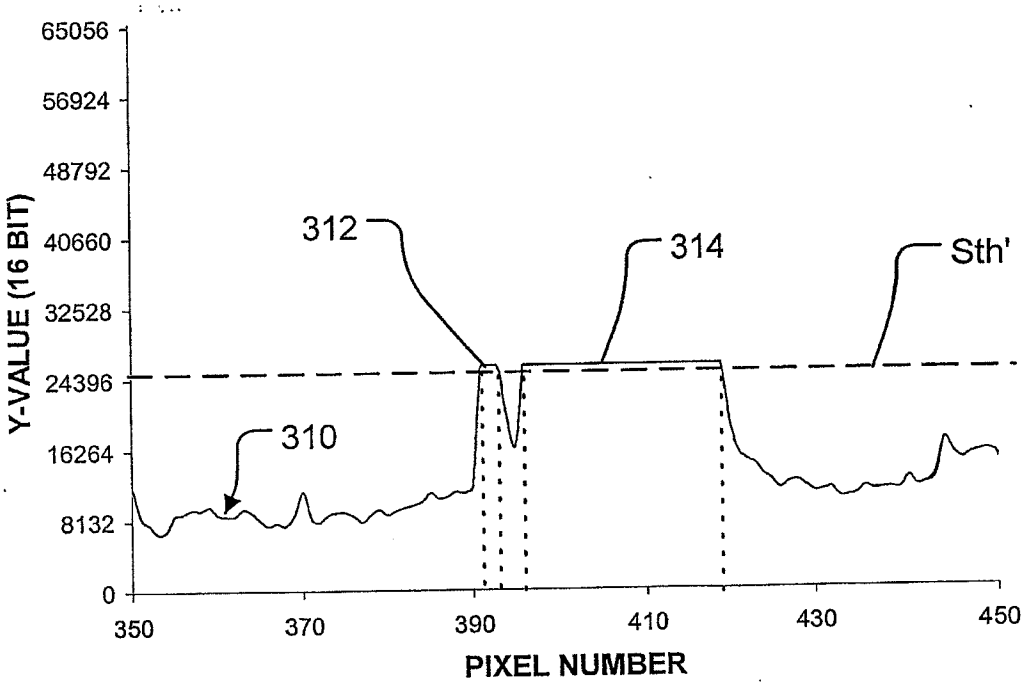
65056
56924
48792
40660
32528
24396
16264
8132
0
Y-VALUE (16 BIT)
312
314
Sth'
310
350
370
390
410
430
450
PIXEL NUMBER

FIGURE 3C

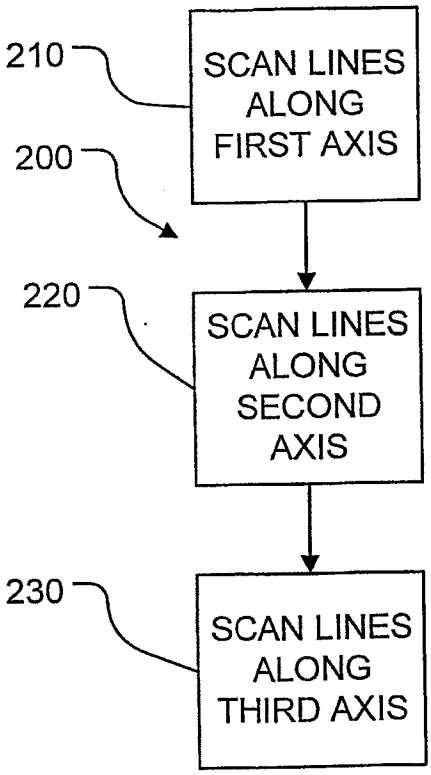
210
SCAN LINES ALONG FIRST AXIS
200
220
SCAN LINES ALONG SECOND AXIS
230
SCAN LINES ALONG THIRD AXIS

FIGURE 4A

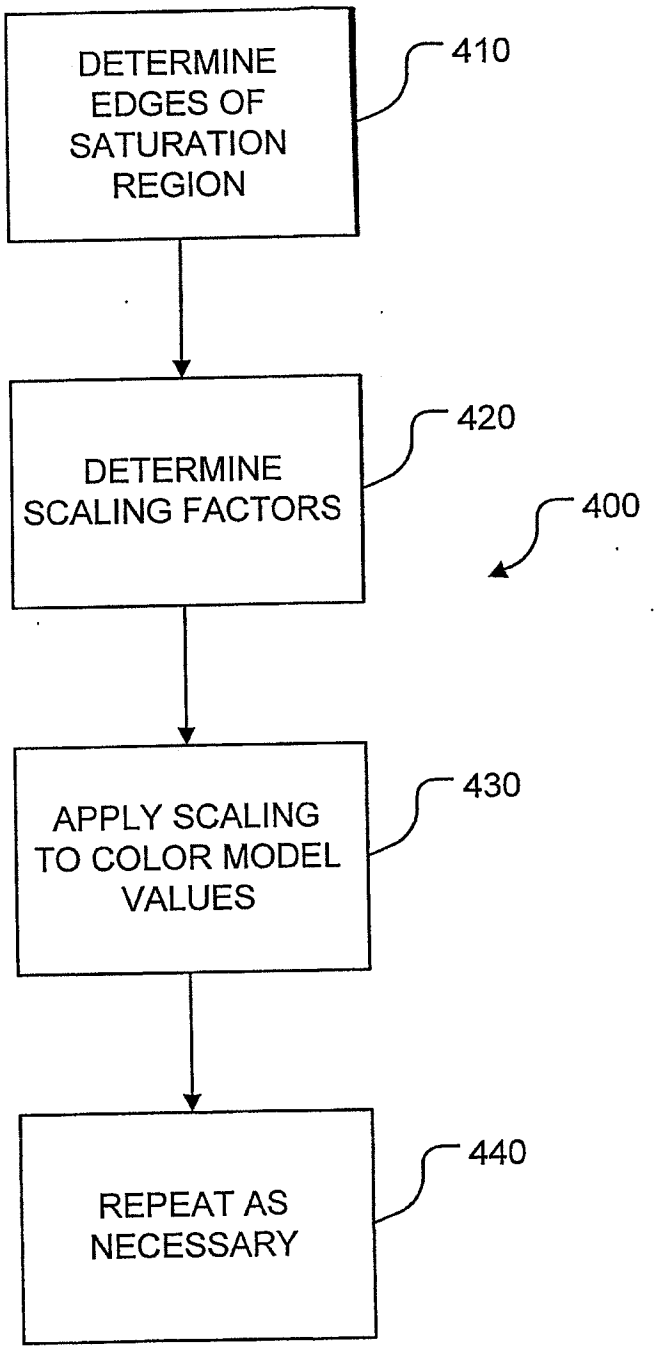
DETERMINE EDGES OF SATURATION REGION
410
DETERMINE SCALING FACTORS
420
400
APPLY SCALING TO COLOR MODEL VALUES
430
REPEAT AS NECESSARY
440

FIGURE 4B

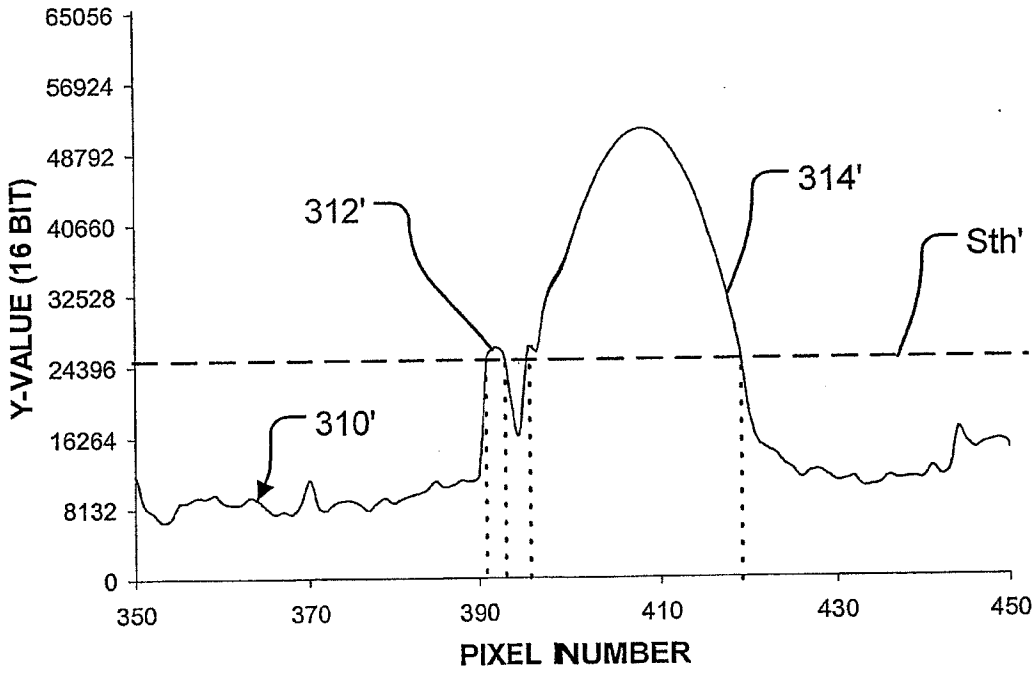
65056
56924
48792
40660
32528
24396
16264
8132
0
Y-VALUE (16 BIT)
312'
314'
Sth'
310'
350
370
390
410
430
450
PIXEL NUMBER

FIGURE 5

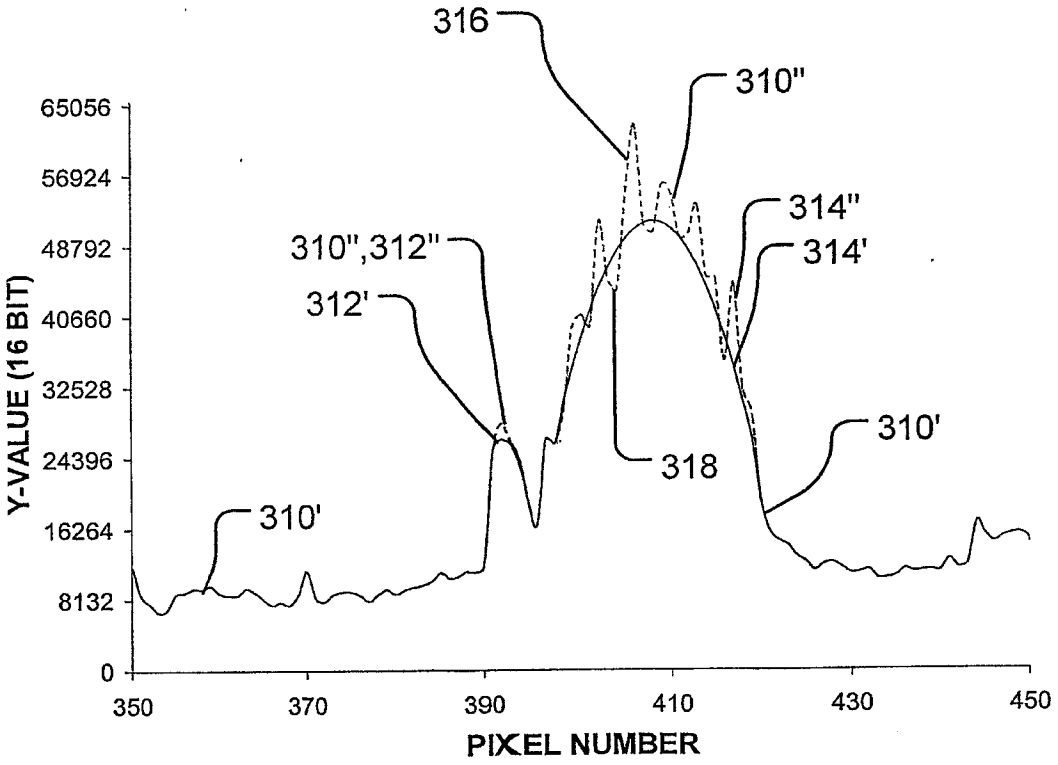
316
310"
314"
314'
310",312"
312'
310'
318
65056
56924
48792
40660
32528
24396
16264
8132
0
Y-VALUE (16 BIT)
350
370
390
410
430
450
PIXEL NUMBER

FIGURE 6A

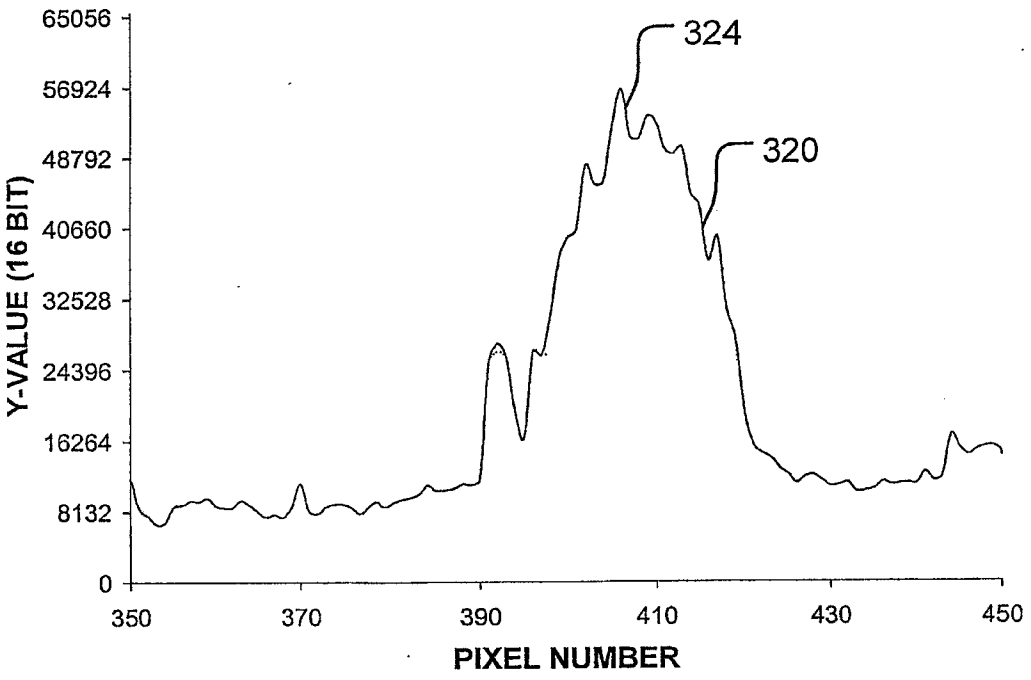
65056
56924
48792
40660
32528
24396
16264
8132
0
Y-VALUE (16 BIT)
350
370
390
410
430
450
PIXEL NUMBER
324
320

FIGURE 6B